Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (currently amended) A dielectric barrier discharge lamp drive circuit including comprising a sealed container having a dielectric body and containing discharge gas, and a pair of electrodes, facing each other on the sealed container with the dielectric body and the discharge gas located therebetween, the dielectric barrier discharge drive circuit being characterized by:;
- a drive AC generation circuit for generating high frequency power applied between the pair of electrodes; and a reactor member connected in series between the drive AC

generation circuit and the discharge lamp.

2. (currently amended) The dielectric barrier discharge lamp drive circuit according to claim 1, characterized in that

wherein the reactor member is an inductance element.

3. (currently amended) The dielectric barrier discharge lamp drive circuit according to claim 1, characterized in that wherein the reactor member is a leakage transformer.

- 4. (currently amended) The dielectric barrier discharge lamp drive circuit according to any one of claim[[s]] 1 to 3, characterized in that wherein the drive AC generation circuit includes an inverter for converting DC power to the high frequency power, the inverter including a means for adjusting the frequency of the high frequency power.
- 5. (currently amended) The dielectric barrier discharge lamp drive circuit according to any one of claim[[s]] 1 to 4, characterized in that wherein the reactor member has an inductance value selected so that an impedance of a load as viewed from the drive AC generation circuit is set to a current limiting impedance necessary for uniform light emission of the discharge lamp.
- 6. (currently amended) The dielectric barrier discharge lamp drive circuit according to any one of claim[[s]] 1 to 4, characterized in that wherein a series resonance state is set by an inductance component of the reactor member and a load electrostatic capacity component of the discharge lamp, and the inductance component has an inductance value selected so that the frequency of the high frequency power is lower than the resonance frequency.
- 7. (currently amended) The dielectric barrier discharge lamp drive circuit according to any one of claim[[s]] 1 to 4, characterized in that wherein a series resonance state is set

by an inductance component of the reactor member and a load electrostatic capacity component of the discharge lamp, and the inductance component has an inductance value selected so that the frequency of the high frequency power is positioned at a steep gradient part in a resonance impedance frequency characteristic curve.

- 8. (currently amended) The dielectric barrier discharge lamp drive circuit according to any one of claim[[s]] 1 to 4, characterized in that wherein the impedance component has an inductance value selected so that impedance of the reactor member cancels at least part of the impedance of the discharge lamp.
- 9. (currently amended) The dielectric barrier discharge lamp drive circuit according to claim 8, characterized in that wherein a series resonance state is set by an inductance component of the reactor member and a load electrostatic capacity component of the discharge lamp, and the inductance component has an inductance value selected so that the frequency of the high frequency power of the drive AC generation circuit is set in the vicinity of the resonance frequency.
- 10. (currently amended) The dielectric barrier discharge lamp drive circuit according to claim 8, characterized in that wherein a series resonance state is set by an inductance

component of the reactor member and a load electrostatic capacity component of the discharge lamp, and the inductance component has an inductance value selected so that the frequency of the high frequency power of the drive AC generation circuit is lower than the resonance frequency.

- 11. (currently amended) The dielectric barrier discharge lamp drive circuit according to claim 1, characterized in that wherein the drive AC generation circuit includes a step-up transformer for boosting the high frequency power, and the reactor member is connected in series between the step-up transformer and the discharge lamp.
- 12. (currently amended) The dielectric barrier discharge lamp drive circuit according to claim 1, characterized in that wherein the drive AC generation circuit includes a step-up transformer, having a primary coil and a secondary coil, for boosting the high frequency power, and the reactor member is connected in series to the primary coil of the step-up transformer.
- 13. (new) The dielectric barrier discharge lamp drive circuit according to claim 2, wherein the drive AC generation circuit includes an inverter for converting DC power to the high frequency power, the inverter including a means for adjusting the frequency of the high frequency power.

- 14. (new) The dielectric barrier discharge lamp drive circuit according to claim 2, wherein the reactor member has an inductance value selected so that an impedance of a load as viewed from the drive AC generation circuit is set to a current limiting impedance necessary for uniform light emission of the discharge lamp.
- 15. (new) The dielectric barrier discharge lamp drive circuit according to claim 2, wherein a series resonance state is set by an inductance component of the reactor member and a load electrostatic capacity component of the discharge lamp, and the inductance component has an inductance value selected so that the frequency of the high frequency power is lower than the resonance frequency.
- 16. (new) The dielectric barrier discharge lamp drive circuit according to claim 1, wherein a series resonance state is set by an inductance component of the reactor member and a load electrostatic capacity component of the discharge lamp, and the inductance component has an inductance value selected so that the frequency of the high frequency power is positioned at a steep gradient part in a resonance impedance frequency characteristic curve.
- 18. (new) The dielectric barrier discharge lamp drive circuit according to claim 2, wherein the impedance component has an inductance value selected so that impedance of the

Preliminary Amendment

reactor member cancels at least part of the impedance of the discharge lamp.

- 19. (new) The dielectric barrier discharge lamp drive circuit according to claim 18, wherein a series resonance state is set by an inductance component of the reactor member and a load electrostatic capacity component of the discharge lamp, and the inductance component has an inductance value selected so that the frequency of the high frequency power of the drive AC generation circuit is set in the vicinity of the resonance frequency.
- 20. (new) The dielectric barrier discharge lamp drive circuit according to claim 18, wherein a series resonance state is set by an inductance component of the reactor member and a load electrostatic capacity component of the discharge lamp, and the inductance component has an inductance value selected so that the frequency of the high frequency power of the drive AC generation circuit is lower than the resonance frequency.